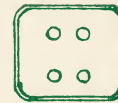
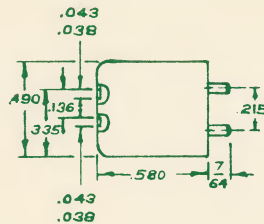
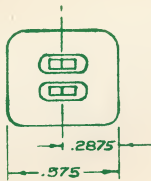




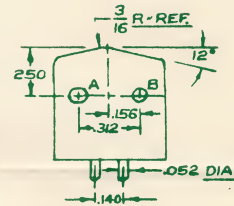
5NP-300

REC. PBK. HEAD ASS'Y., COMPLETE



$\frac{1}{4}$ TRACK STEREO LAMINATED
PREMIUM QUALITY
RECORD/PLAYBACK HEAD

NOTE:
A = .082 X .103 SLOT
B = .082 DIA.



SPECIFICATIONS

MECHANICAL:

Height	.490"
Width	.575"
Depth	.580" - including terminals .689"
Terminals	.052" Diameter (4 Pins)
Face:	Hyperbolic Grind

ELECTRICAL:

Impedance @ 1 KC	3300 Ohms $\pm 20\%$
Inductance	.5 Hy. Nominal
Bias Frequency	70 KC
Record Level	-12 DB
Tape	3M190
Tape Speed	3.75 IPS
Audio Current	.022 MA
Bias Current	.18 MA
Playback Level:	
1 KC	1.5 MV ± 3 DB
10 KC (Relative to 1 KC)	-6 DB ± 3 DB

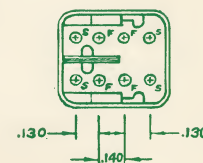
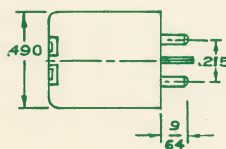
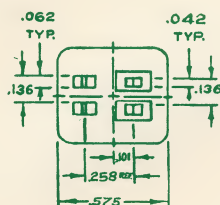
MOUNTING: Available as illustrated or with Side Mount
or with Rear Stud Mount and shielded leads.

MICHIGAN MAGNETICS, INC.
VERMONTVILLE, MICHIGAN 49096
(517) 259-8911



4NPV-300

REC./PBK./ERASE HEAD ASS'Y., COMPLETE



$\frac{1}{4}$ TRACK STEREO LAMINATED
PREMIUM QUALITY
RECORD/PLAYBACK/ERASE HEAD

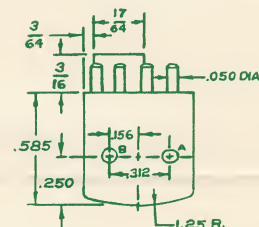
NOTE

A = .082 X .103 SLOT

B = .082 DIA.

S = START

F = FINISH



SPECIFICATIONS

MECHANICAL:

Height	.490"
Width	.575"
Depth	.585" - including terminals .772"
Terminals	.052" Diameter (8 Pins)
Face	1.25" Radius Grind

ELECTRICAL:

RECORD/PLAYBACK:

Impedance @ 1 KC	2600 Ohms $\pm 20\%$
Inductance	.4 HY Nominal
Bias Frequency	70 KC
Record Level	-12 DB
Tape	3M190
Tape Speed	3.75 IPS
Audio Current	.030 MA
Bias Current	.2 MA
Playback Level:	
1 KC	1.4 MV ± 3 DB
10 KC (Relative to 1 KC)	-6 DB ± 3 DB

ERASE:

Impedance @ 70 KC	2500 Ohms $\pm 20\%$
Inductance	10 MHY
Erase Current	15 MA
Erase Frequency	70 KC
Erasure from Saturated Tape	
400 CPS	60 DB
Tape	3M190
Tape Speed	7.5 IPS

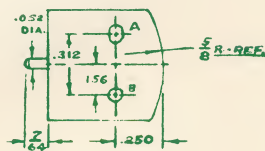
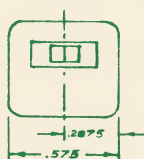
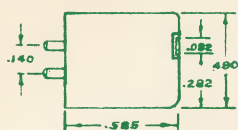
MOUNTING: Available as illustrated, Basic - No Mount, and also with Side Mount - right or left.

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4NL-300

REC./PBK. HEAD ASS'Y., COMPLETE



NOTE:
A = .082 X .103 SLOT
B = .082 DIA

$\frac{1}{2}$ TRACK MONAURAL LAMINATED
PREMIUM QUALITY
RECORD/PLAYBACK HEAD

SPECIFICATIONS

MECHANICAL:

Height	.490"
Width	.575"
Depth	.585" - including terminals .694"
Terminals	.052" Diameter (2 Pins)
Face:	Radial Grind Also available with Hyperbolic Grind

ELECTRICAL:

Impedance @ 1 KC	2600 Ohms $\pm 20\%$
Inductance	.4 Hy. Nominal
Bias Frequency	70 KC
Record Level	-12 DB
Tape	3M190
Tape Speed	3.75 IPS
Audio Current	.032 MA
Bias Current	.4 MA
Playback Level:	
1 KC	1.8 MV ± 3 DB
10 KC (Relative to 1 KC)	-8 DB ± 3 DB

MOUNTING: Available as illustrated or with Side Mount
or with Rear Stud Mount and shielded leads.

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